

ABSTRACT OF THE DISCLOSURE

A gradient material molded body, obtained in continuous casting from at least one metal alloy solidified in an outer shell of the molded body, outside the thermodynamic equilibrium.

A method for manufacturing a gradient material molded body, wherein the molded body is cast into its finished form in continuous casting from at least one metal molten mass which is alloyed supersaturated, and wherein an outer shell of the molded body is chilled into its crystal lattice in the course of said casting.